FIG. 1

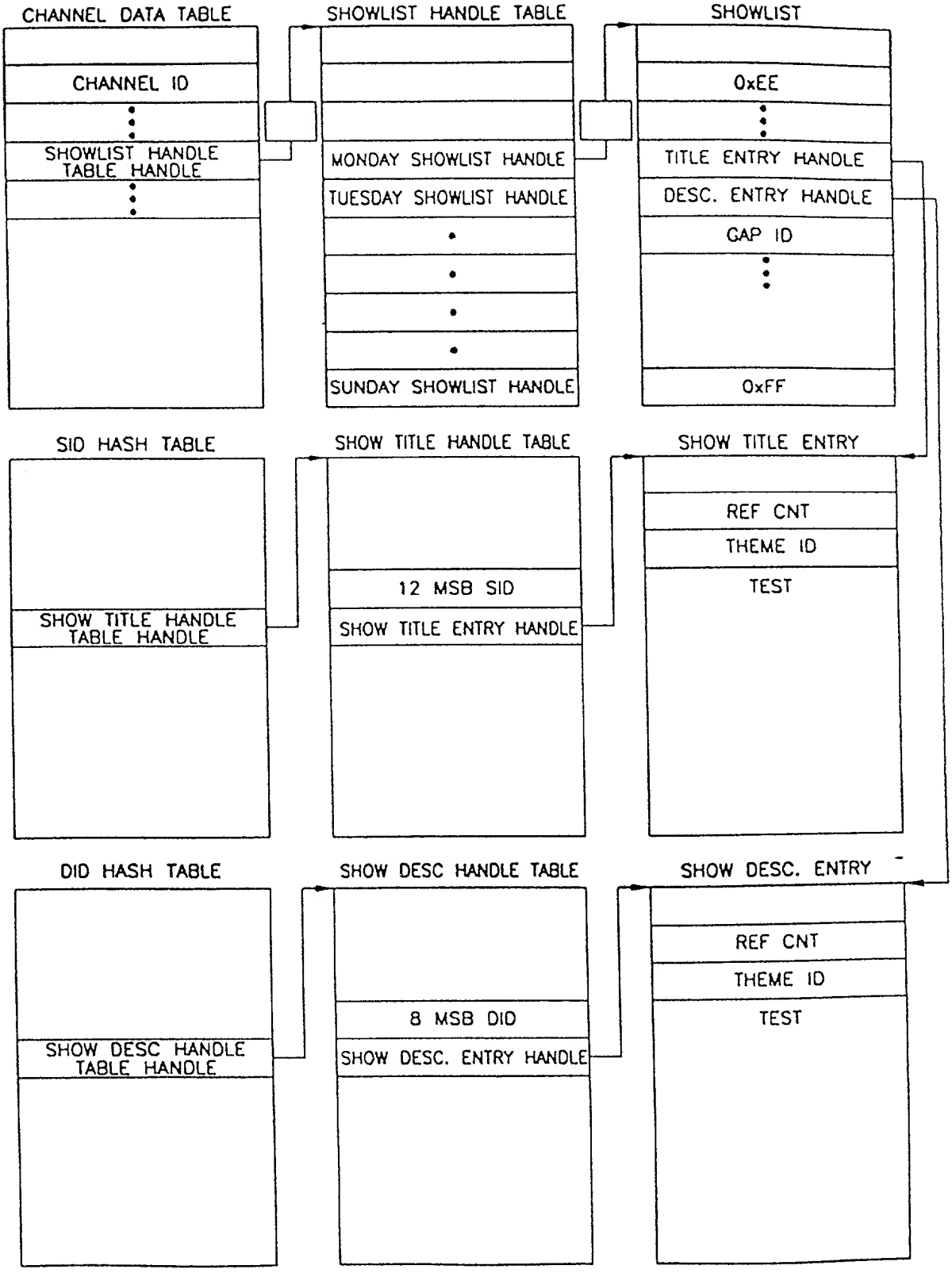
CHANNEL DATA TABLE
CHANNEL ID
SHOWLIST HANDLE TABLE HANDLE
SHOWLIST HANDLE TABLE
MONDAY SHOWLIST HANDLE
TUESDAY SHOWLIST HANDLE
SUNDAY SHOWLIST HANDLE
SHOWLIST
0xEE
TITLE ENTRY HANDLE
DESC. ENTRY HANDLE
GAP ID
0xFF
SID HASH TABLE
SHOW TITLE HANDLE TABLE HANDLE
SHOW TITLE HANDLE TABLE
12 MSB SID
SHOW TITLE ENTRY HANDLE
SHOW TITLE ENTRY
REF CNT
THEME ID
TEST
DID HASH TABLE
SHOW DESC HANDLE TABLE HANDLE
SHOW DESC HANDLE TABLE
8 MSB DID
SHOW DESC. ENTRY HANDLE
SHOW DESC. ENTRY
REF CNT
THEME ID
TEST

FIG. 2A

CHANNEL DATA TABLE

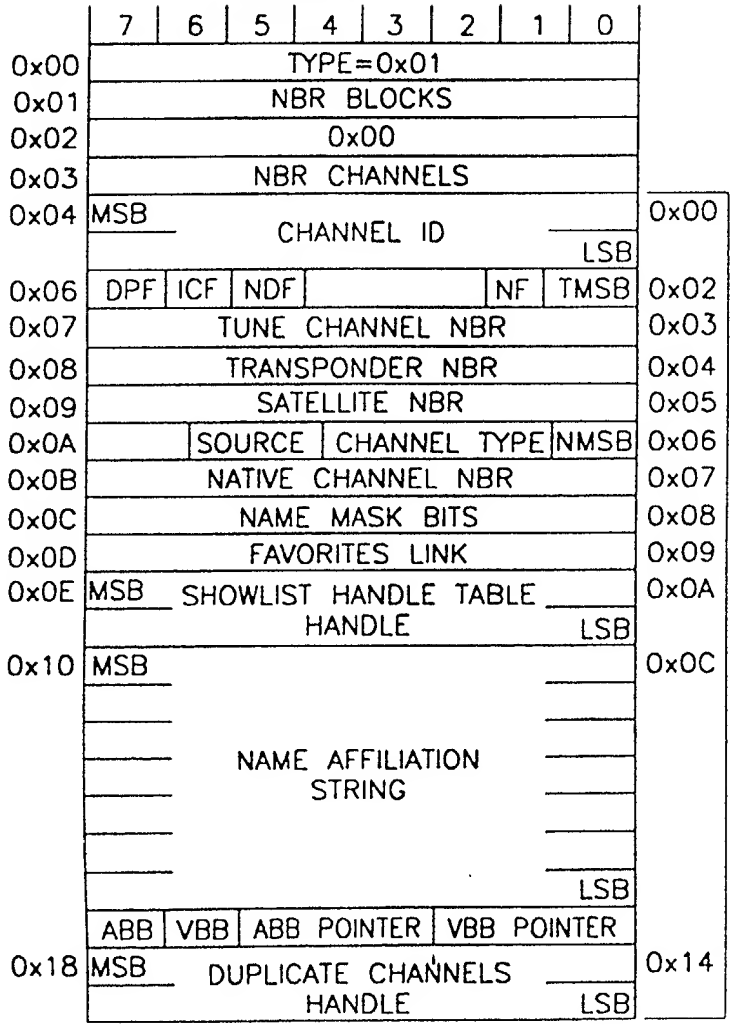

FIG. 2B

SHOW LIST

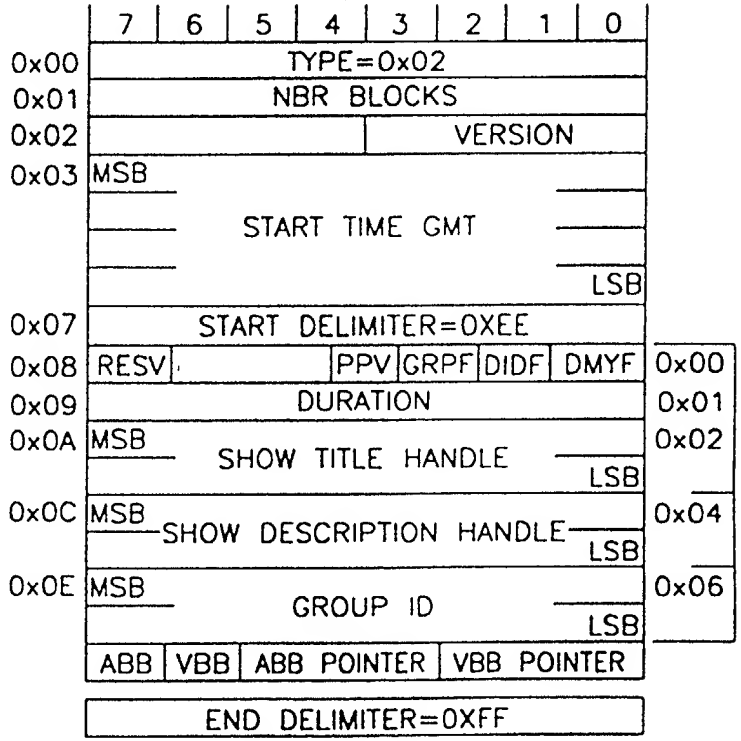

FIG.3

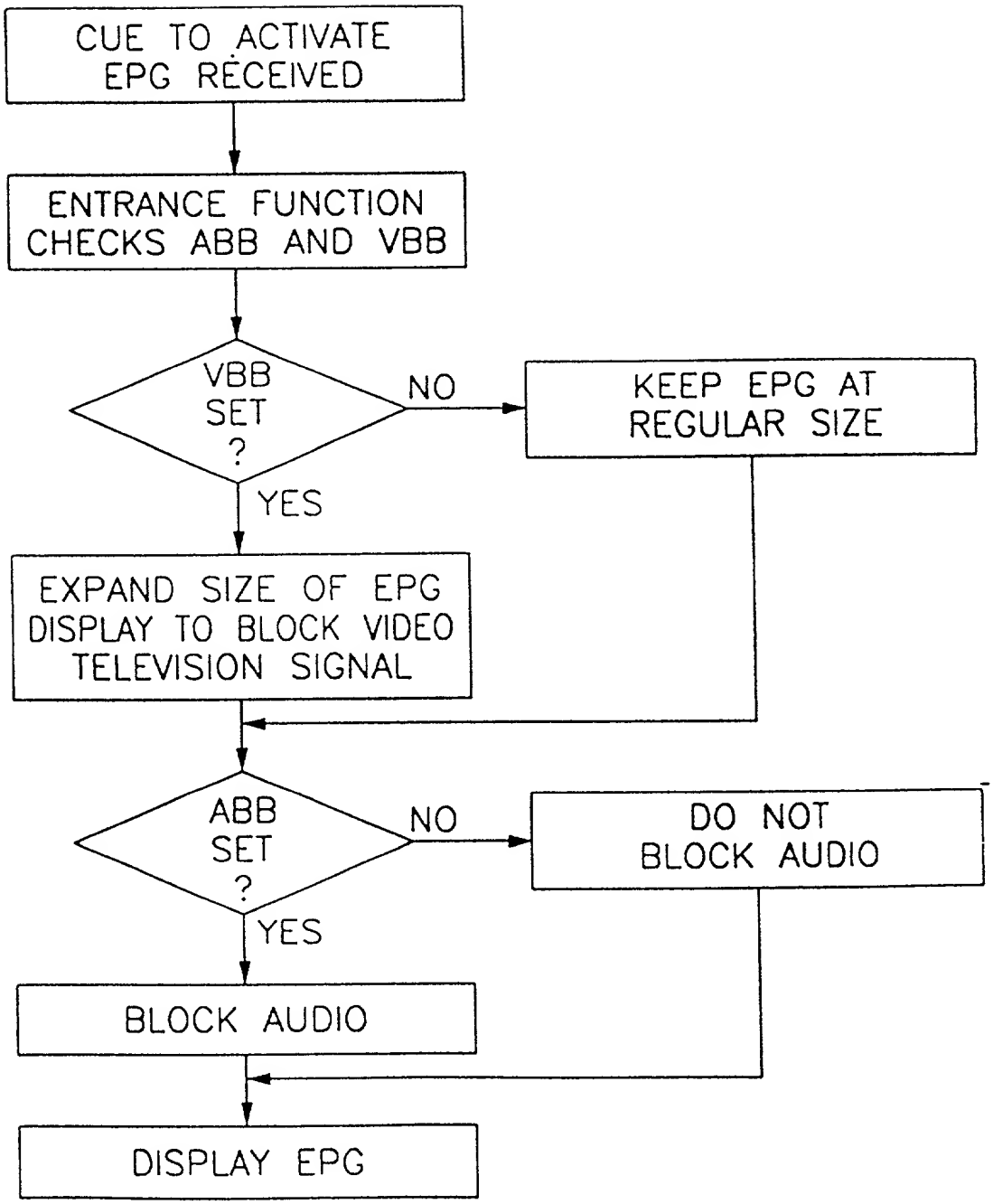
CUE TO ACTIVATE EPG RECEIVED
ENTRANCE FUNCTION CHECKS ABB AND VBB
VBB SET ?
NO
KEEP EPG AT REGULAR SIZE
YES
EXPAND SIZE OF EPG DISPLAY TO BLOCK VIDEO TELEVISION SIGNAL
ABB SET ?
NO
DO NOT BLOCK AUDIO
YES
BLOCK AUDIO
DISPLAY EPG

FIG. 4A

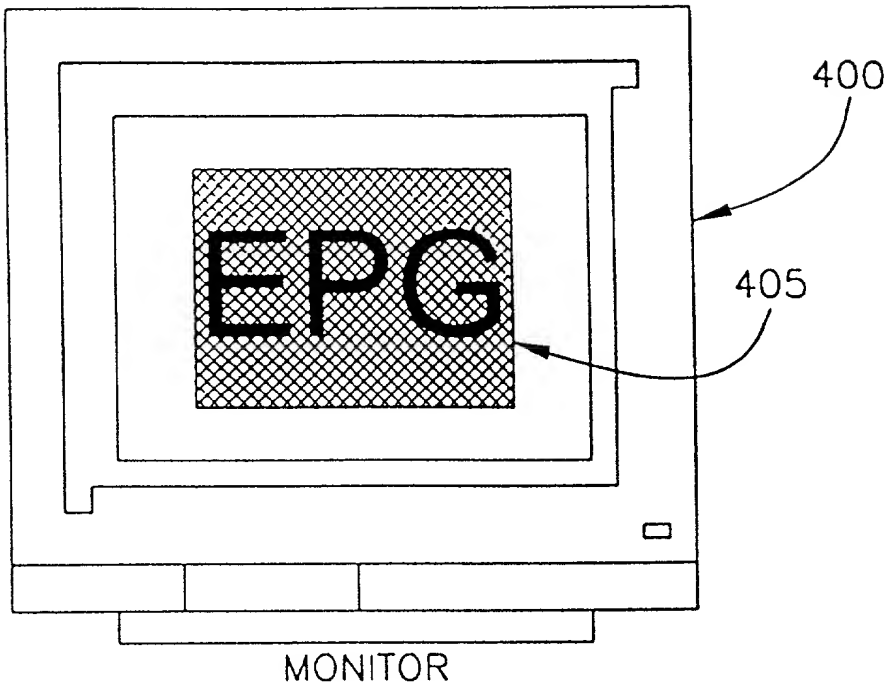

FIG. 4B

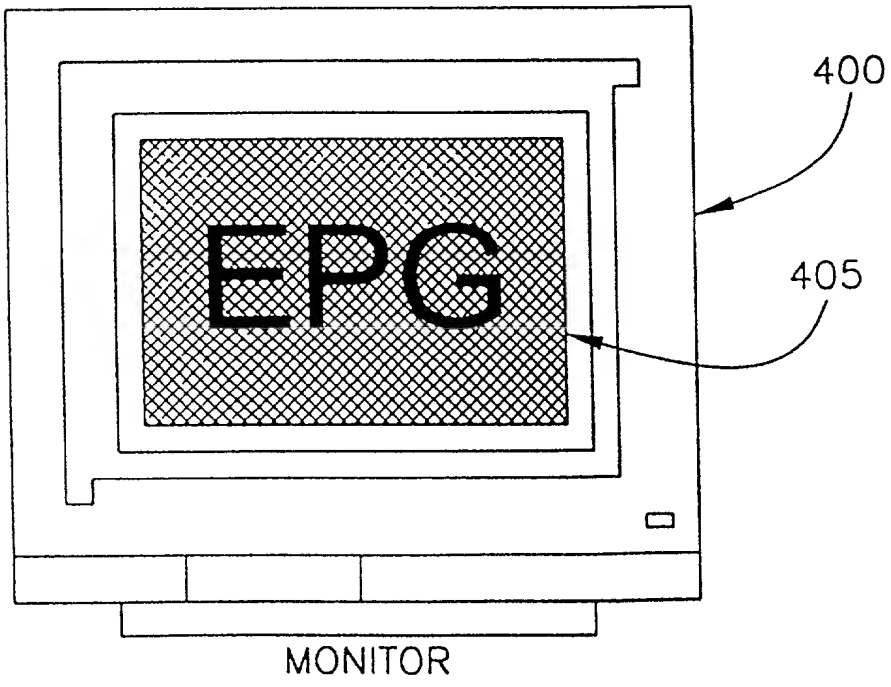

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FIG.5

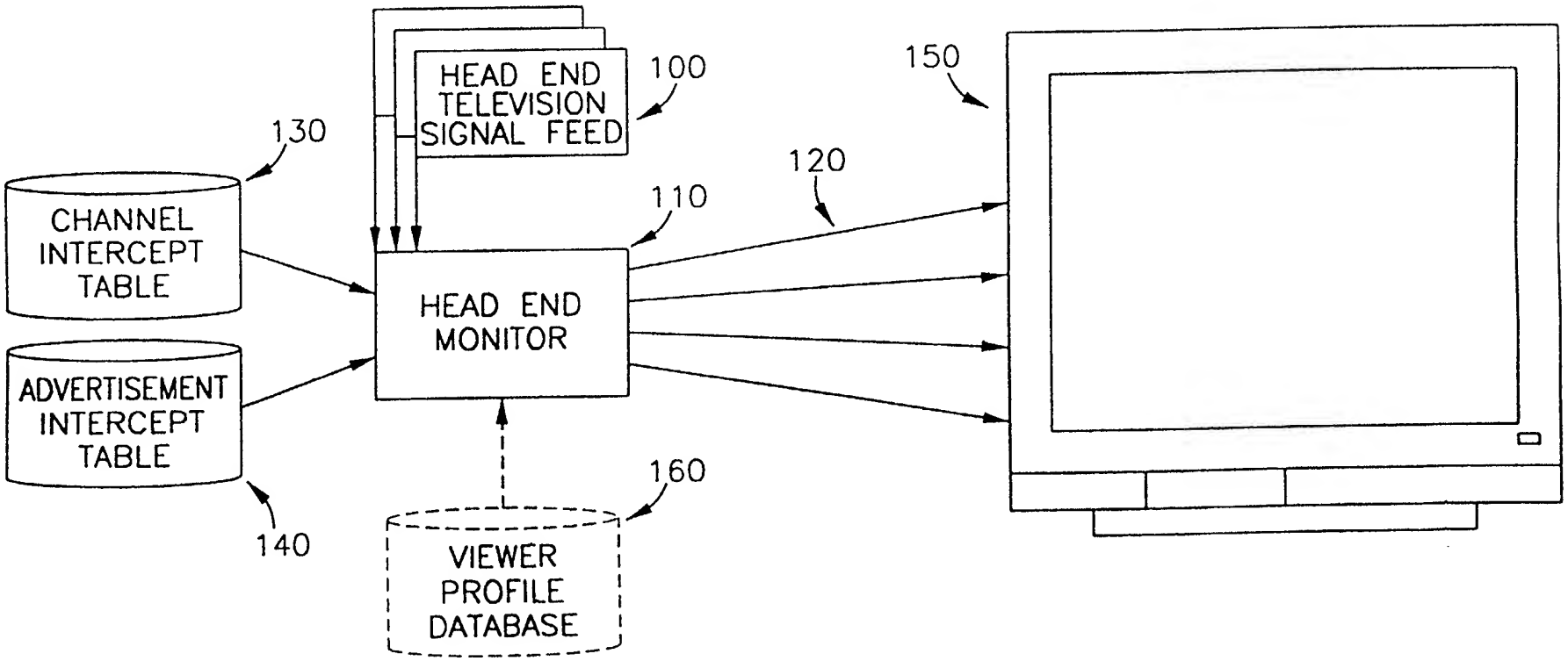
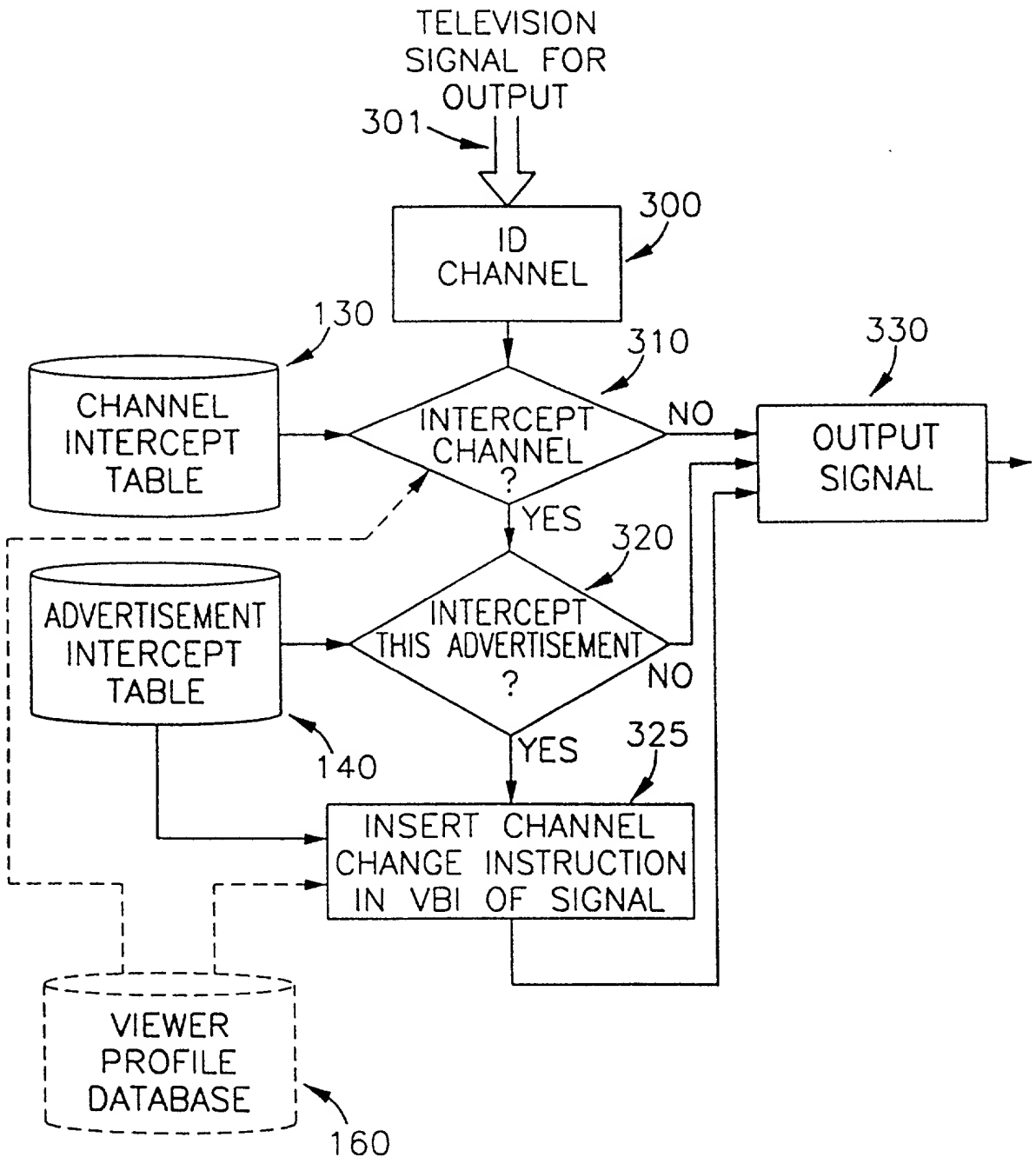


FIG. 6


TELEVISION SIGNAL FOR OUTPUT
301
ID CHANNEL
300
130
CHANNEL INTERCEPT TABLE
310
INTERCEPT CHANNEL ?
NO
330
OUTPUT SIGNAL
YES
320
ADVERTISEMENT INTERCEPT TABLE
INTERCEPT THIS ADVERTISEMENT ?
NO
140
YES
325
INSERT CHANNEL CHANGE INSTRUCTION IN VBI OF SIGNAL
VIEWER PROFILE DATABASE
160

TGZ850 Z0T0n660

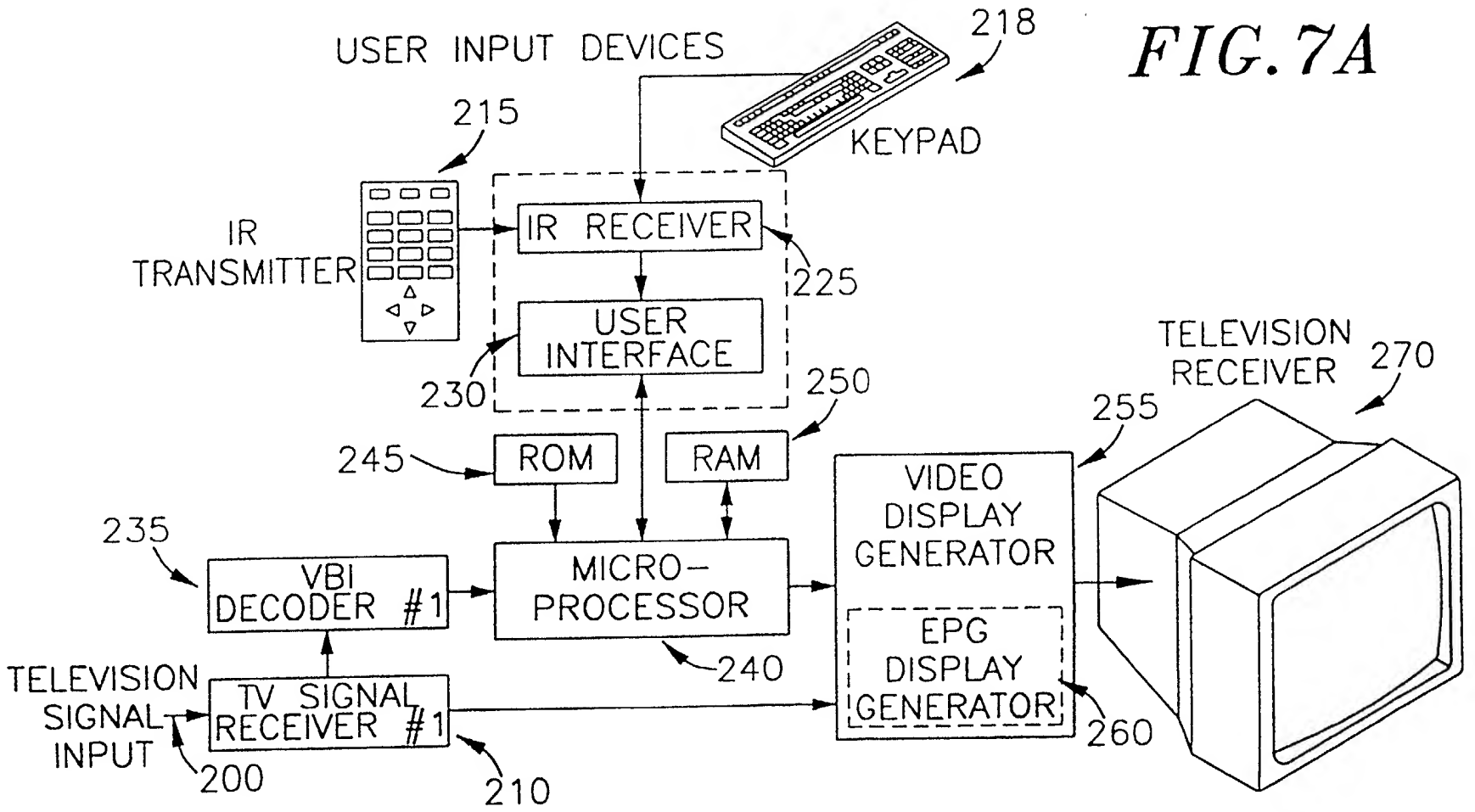
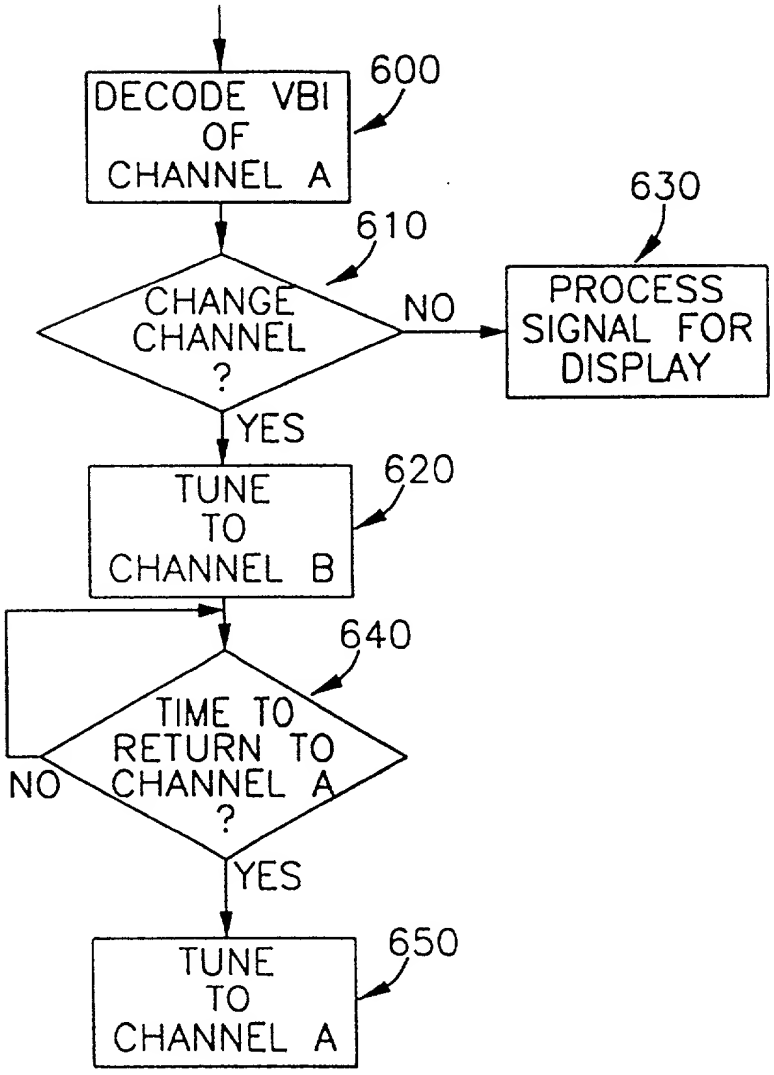


FIG. 7A

FIG.7B


DECODE VBI OF CHANNEL A
600
CHANGE CHANNEL ?
610
NO
PROCESS SIGNAL FOR DISPLAY
630
YES
TUNE TO CHANNEL B
620
TIME TO RETURN TO CHANNEL A ?
640
NO
YES
TUNE TO CHANNEL A
650

FOREIGN PATENT DOCUMENT

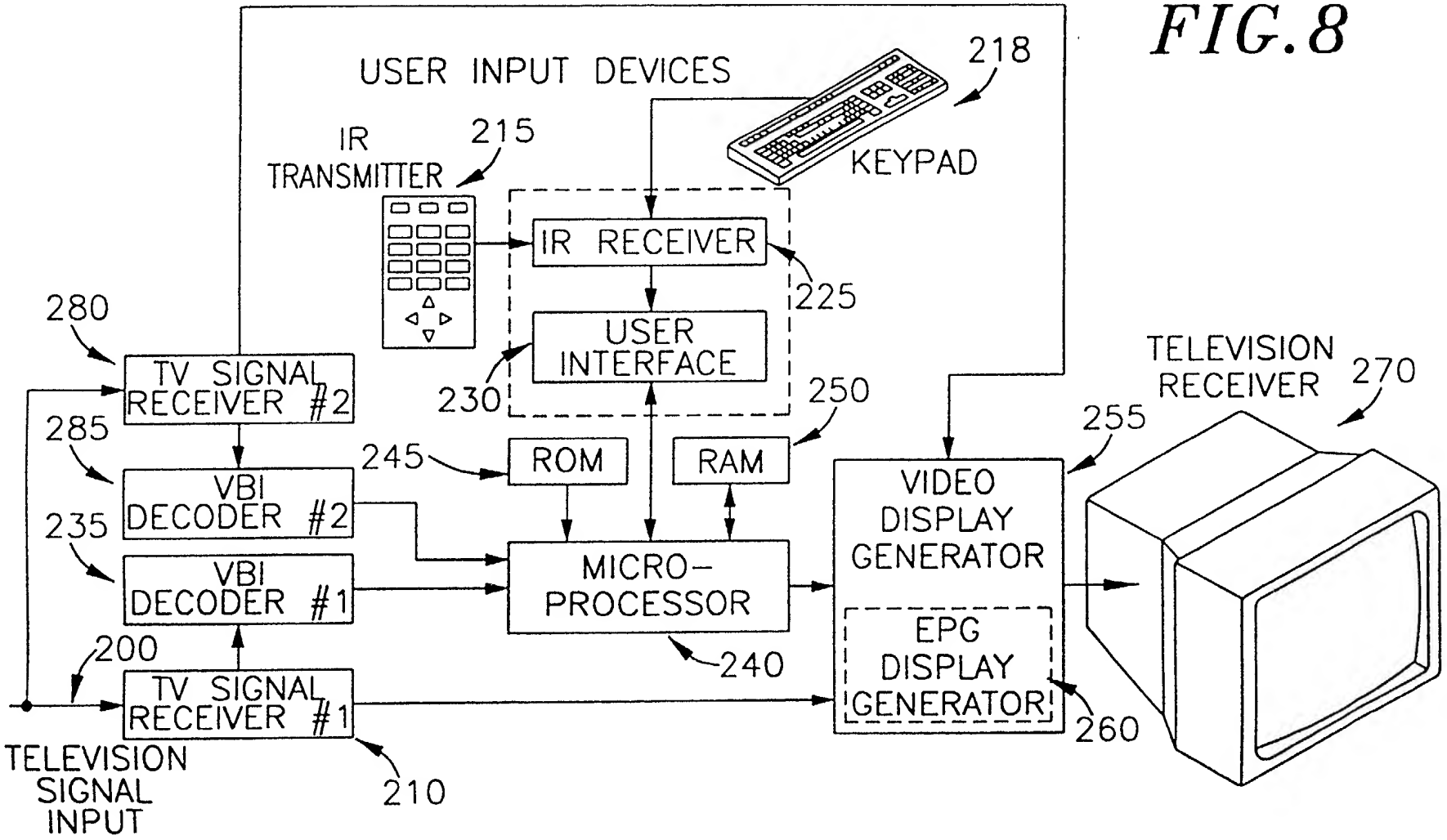
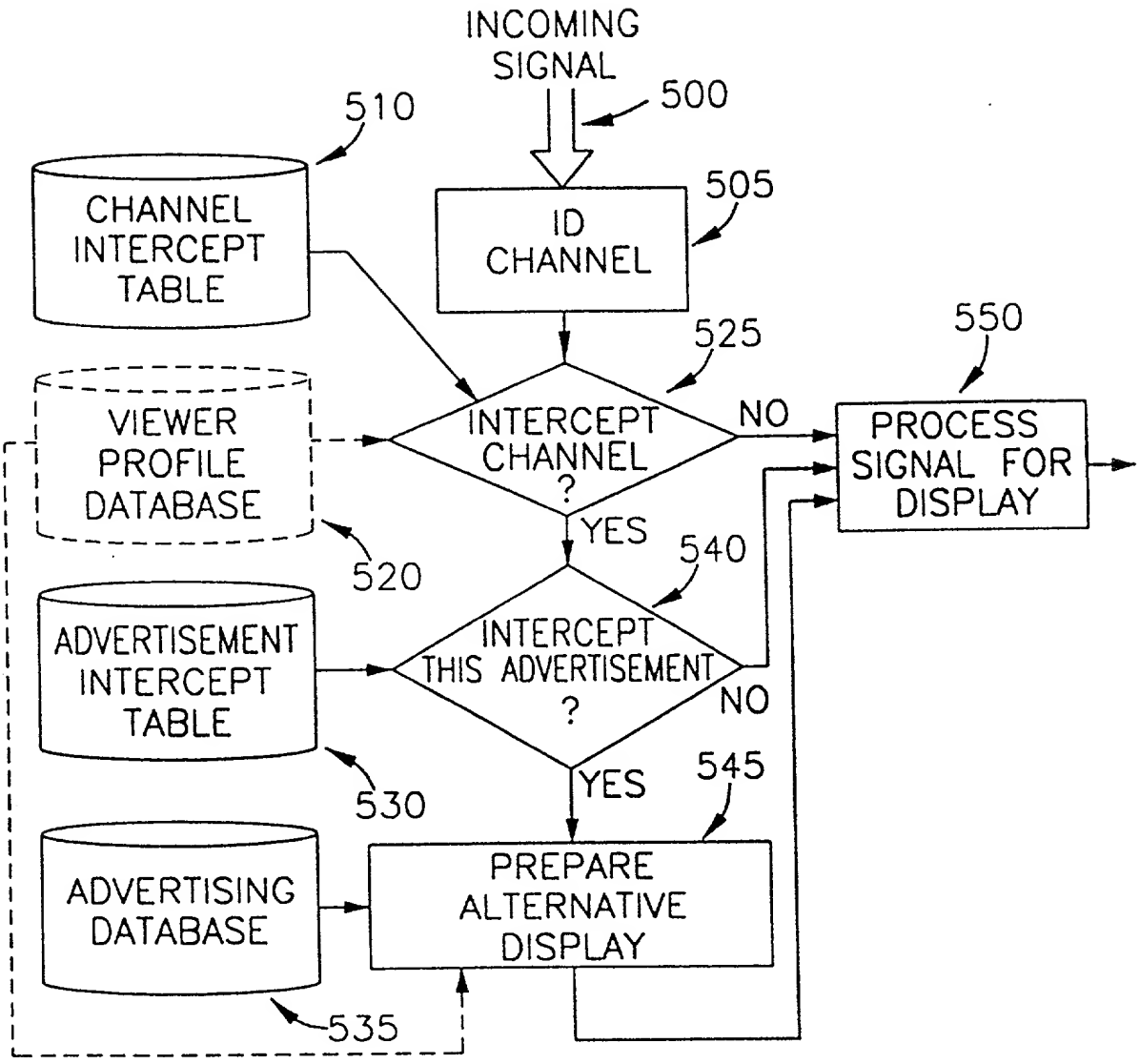


FIG. 8

FIG. 9


INCOMING SIGNAL
500
510
CHANNEL INTERCEPT TABLE
505
ID CHANNEL
525
550
VIEWER PROFILE DATABASE
INTERCEPT CHANNEL ?
NO
PROCESS SIGNAL FOR DISPLAY
YES
520
540
ADVERTISEMENT INTERCEPT TABLE
INTERCEPT THIS ADVERTISEMENT ?
NO
YES
530
545
ADVERTISING DATABASE
PREPARE ALTERNATIVE DISPLAY
535

TO:2807 20T0h660

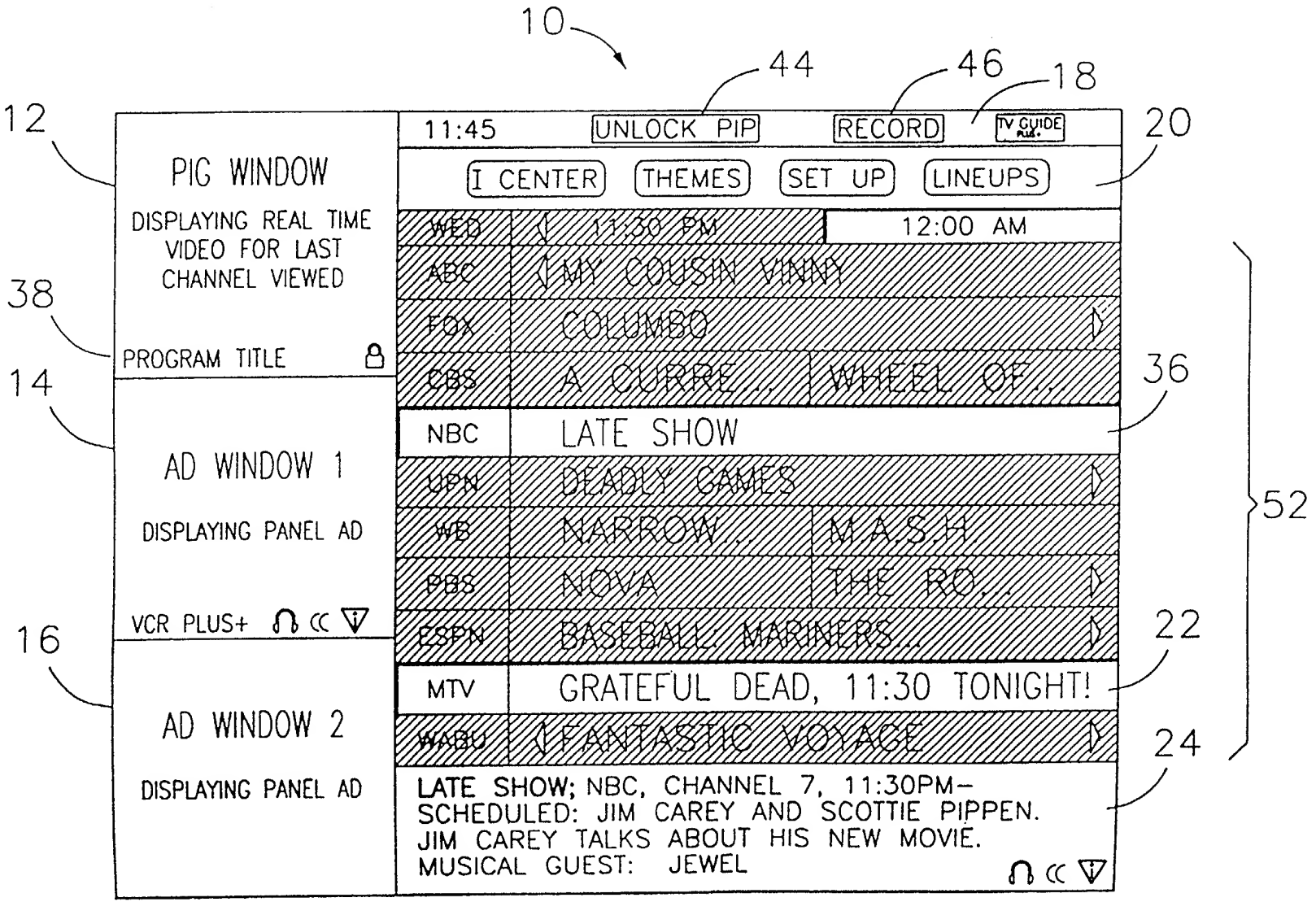


FIG. 10